

engineering data service

6677/6CL6

Type 6677/6CL6 is designed specifically for use in mobile communications equipment. The 6677/6CL6 may be operated without serious degradation under normal variations in supply voltage as encountered with automotive electrical systems. Also consistent with the requirements of the equipment, the tube is capable of withstanding appreciable on-off cycling.

MECHANICAL DATA

Bulb .																	
Base .									Sn	nal	l Bı	itto	n	N	ova	al 9	9-Pin
Outline																	6-3
Basing.																	9BV
Cathode																	
Mounting	ς Po	osit	ior	ı.													Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage ¹	. 6.3 Volts
Heater Current	. 650 Ma
Heater-Cathode Voltage (Design Maximum Values)	
Heater Negative with Respect to Cathode	
Heater Positive with Respect to Cathode	. 100 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid 1	Vо.	1 t	o P	late	е.							$0.12~\mu\mu f$
Input												$11 \mu \mu f$
Output												

RATINGS (Design Maximum Values)

Plate Voltage .												330	Volts	Max.
Grid No. 2 Voltage									See	R	ating	Chart		
Grid No. 2 Voltage	: Su	pply	7 .									330	Volts	Max.
Grid No. 3 Voltage	٠											0	Volts	Max.
Grid No. 1 Voltage														
Negative Bias	Valu	ıе.										50	Volts	Max.
Positive Bias V	Valu	e.										0	Volts	Max.
Plate Dissipation											•	8.5	Watts	Max.
Grid No. 2 Input												2.0	Watts	Max.
Grid No. 1 Circuit	Res	ista	nce											
Fixed Bias .												0.1	Megohm	Max.
Cathode Bias												0.5	Megohm	Max.
Bulb Temperature	(At	H	ottest	Po	oin	:)			•			210	°C	Max.

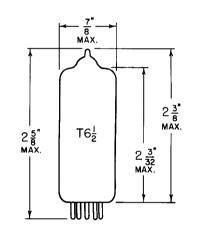
CHARACTERISTICS

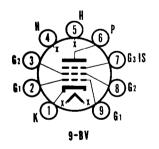
-		Volts Volts
	-3	Volts
	-	Volts
Zero Signal Plate Current	30	Ma
Maximum Signal Plate Current	31	Ma
Zero Signal Grid No. 2 Current	7	Ma
Maximum Signal Grid No. 2 Current	.2	Ma
Transconductance)()	μ mhos
Plate Resistance (Approx.) 0.	15	Megohm
		Ohms
Total Harmonic Distortion	8	Percent
Maximum Signal Power Output	.8	Watts
Ec1 for Ib = $10 \mu a$ (Approx.)		

QUICK REFERENCE DATA

Sylvania Type 6677/6CL6 is designed specifically for mobile operation. It is a T-6½ beam power pentode intended for use as an R-F power oscillator or amplifier.

Type 6677/6CL6 possesses electrical characteristics essentially equivalent to Type 6CL6.





SYLVANIA ELECTRONIC TUBES

A Division of Sylvania Electric Products Inc.

RECEIVING TUBE OPERATIONS EMPORIUM, PA.

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File Under
RECEIVING TUBES



SPECIAL TESTS AND RATINGS

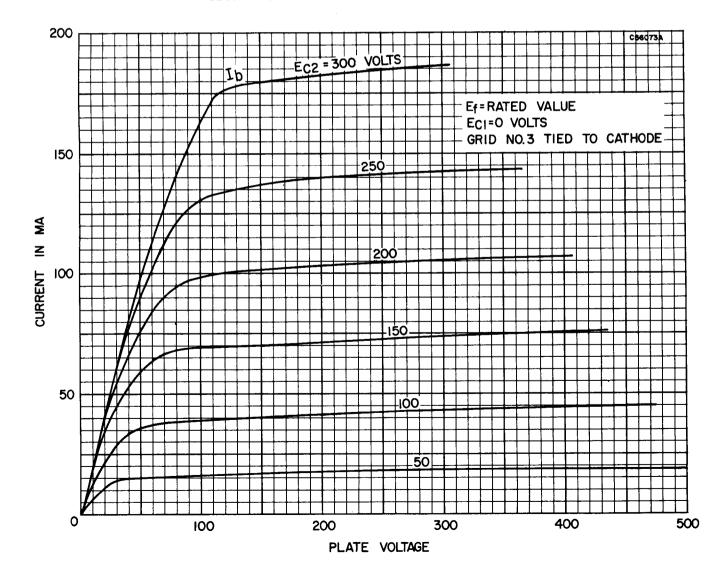
Heater-Cycling Life Tests

Statistical sample operated for 2000 cycles to evaluate and control heater-cathode defects. Conditions of test include Ef = 7.5 volts cycled for one minute on and one minute off. Eb + Ec3 + Ec2 + Ec1 = 0 volts and Ehk = 135 volts with heater positive with respect to cathode.

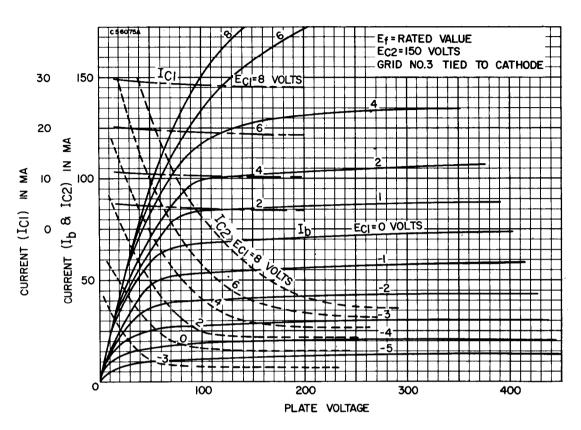
NOTES:

1. When operated from automotive electrical systems, the heater may be subjected to voltage variations as great as ± 20 percent. Although such extremes in heater-voltage may be tolerated for short periods, increased equipment reliability can be achieved with improved supply-voltage regulation.

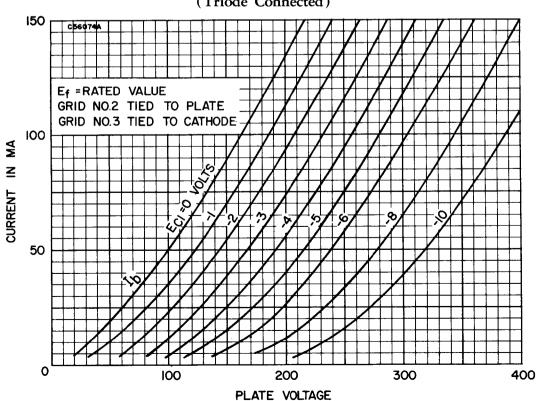
AVERAGE PLATE CHARACTERISTICS



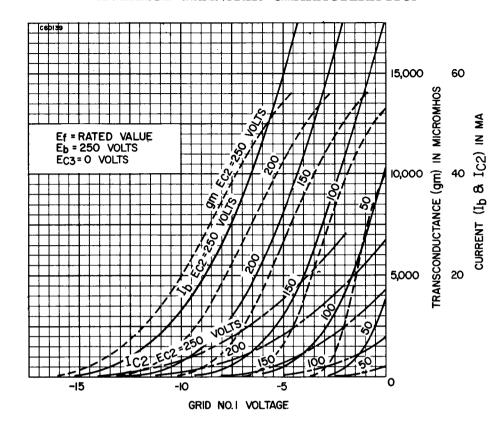
AVERAGE PLATE CHARACTERISTICS



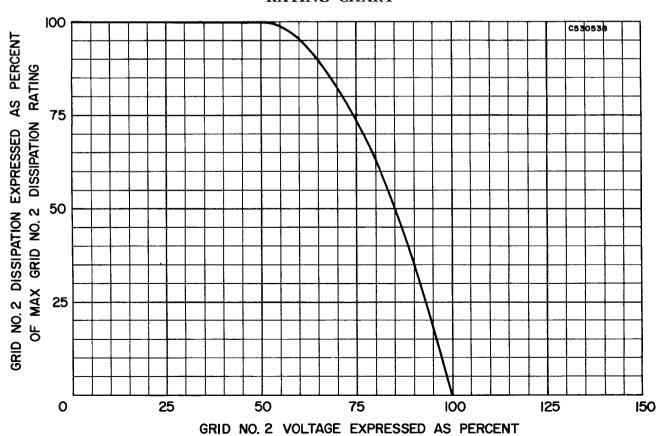
AVERAGE PLATE CHARACTERISTICS (Triode Connected)



AVERAGE TRANSFER CHARACTERISTICS



RATING CHART



OF MAX GRID NO. 2 SUPPLY VOLTAGE RATING